

Human TGFR3/Tgf Beta Riii ELISA Kit | TGFR3 elisa kit

Human TGFR3/Tgf Beta Riii PicoKine Fast ELISA Kit

CATALOG #
AAA125371

REACTIVITY
Human

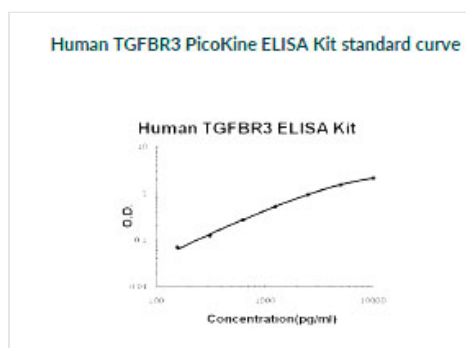
PRODUCT SYNONYMS

TGFR3/Tgf Beta Riii; Human TGFR3/Tgf Beta Riii PicoKine Fast ELISA Kit; human TGFR3; Transforming growth factor beta receptor type 3; TGF-beta receptor type 3; TGFR-3; Betaglycan; Transforming growth factor beta receptor III; TGF-beta receptor type III; TGFR3; TGFR3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human TGFR3
Sequence Length	850
Samples	Cell culture supernates, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	<10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision accross assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TGFBR3 elisa kit	Principle of the Assay: The Picokine™ Human TGFBR3 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human TGFBR3 with a 96-well strip plate that is pre-coated with antibody specific for TGFBR3. The detection antibody is a biotinylated antibody specific for TGFBR3. The capture antibody is monoclonal antibody from mouse, the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human TGFBR3 with immunogen: NSO, G21-D781. The kit is analytically validated with ready to use reagents. To measure Human TGFBR3, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human TGFBR3 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human TGFBR3 in the sample. !!Background/Introduction: Betaglycan also known as Transforming growth factor beta receptor III (TGFBR3), is a cell- surfacechondroitin sulfate / heparan sulfate proteoglycan >300 kDa in molecular weight. Betaglycan binds to various members of the TGF-beta superfamily of ligands via its core protein, and bFGF via its heparan sulfate chains. It is not involved directly in TGF-beta signal transduction but by binding to various member of the TGF-beta superfamily at the cell surface it acts as a reservoir of ligand for TGF-beta receptors. By cDNA array and immunohistochemistry analyses, it is found that TGFBR3 expression is lost in most breast cancers examined in association with loss of heterozygosity of the TGFBR3 locus. TGFBR3 expression decreased during breast cancer progression, and low levels predicted decreased recurrence-free survival in patients. Loss of TGFBR3 through allelic imbalance is a frequent genetic event during breast cancer development that increases metastatic potential. Also, TGFBR3 can localize transformation in the heart and play an essential, nonredundant role in TGF-beta signaling.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	307574634
NCBI GeneID	7049
NCBI Accession #	NP_001182613.1
NCBI GenBank Nucleotide #	NP_001182613.1
UniProt Accession #	Q03167
NCBI Official Full Name	transforming growth factor beta receptor type 3 isoform b
NCBI Official Synonym Full Names	transforming growth factor beta receptor 3
NCBI Official Symbol	TGFBR3
NCBI Official Synonym Symbols	BGCAN; betaglycan
NCBI Protein Information	transforming growth factor beta receptor type 3
UniProt Protein Name	Transforming growth factor beta receptor type 3
UniProt Gene Name	TGFBR3
UniProt Synonym Gene Names	TGF-beta receptor type 3; TGFR-3
UniProt Entry Name	TGBR3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.